

Waalew Trucking Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Waalew Trucking
Construction Start Date	4/1/2027
Operational Year	2029
Lead Agency	Town of Apple Valley
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	5.00000
Precipitation (days)	12.4000
Location	34.555822036035536, -117.19195464346757
County	San Bernardino-Mojave Desert
City	Apple Valley
Air District	Mojave Desert AQMD
Air Basin	Mojave Desert
TAZ	5118
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southwest Gas Corp.

Data Field	Value
App Version	2022.1.1.45

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Heavy Industry	150.992	1000sqft	3.46630	120.000	150,872	—	—	—
Parking Lot	155.628	1000sqft	3.57273	0.00000	0.00000	—	—	—
Other Asphalt Surfaces	10.2420	1000sqft	0.23512	0.00000	0.00000	—	—	—
Other Non-Asphalt Surfaces	338.407	1000sqft	7.76876	0.00000	0.00000	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Un/Mit.	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Unmit.	7.14916	28.0415	29.5275	0.06243	9.06671	5.07157	7,089.96	0.27095	0.09687	1.28870	7,126.89
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.14916	9.39178	12.9406	0.02341	0.33741	0.30986	2,398.66	0.09726	0.01955	0.00009	2,406.92
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.91202	6.35484	7.89627	0.01508	0.98375	0.47754	1,614.35	0.06410	0.01661	0.05537	1,620.96
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.16644	1.15976	1.44107	0.00275	0.17954	0.08715	267.274	0.01061	0.00275	0.00917	268.368

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	3.13118	28.0415	29.5275	0.06243	9.06671	5.07157	7,089.96	0.27095	0.09687	1.28870	7,126.89
2028	7.14916	8.92570	12.9388	0.02341	0.45160	0.28105	2,398.74	0.09726	0.01955	0.59052	2,407.00
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	1.03010	9.39178	12.9406	0.02340	0.33741	0.30986	2,398.31	0.09725	0.01955	0.00009	2,406.56

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Year	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
2028	7.14916	8.92576	12.9377	0.02341	0.30107	0.27643	2,398.66	0.09726	0.01955	0.00008	2,406.92
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2027	0.71372	6.35484	7.89627	0.01508	0.98375	0.47754	1,614.35	0.06410	0.01661	0.05537	1,620.96
2028	0.91202	4.48091	6.54448	0.01153	0.16279	0.14220	1,194.17	0.04815	0.01004	0.01464	1,198.38
Annual	—	—	—	—	—	—	—	—	—	—	—
2027	0.13025	1.15976	1.44107	0.00275	0.17954	0.08715	267.274	0.01061	0.00275	0.00917	268.368
2028	0.16644	0.81777	1.19437	0.00210	0.02971	0.02595	197.709	0.00797	0.00166	0.00242	198.406

2.2.2. Onsite Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	3.05170	27.9724	28.2794	0.06093	8.83797	5.01795	6,598.08	0.26765	0.05353	0.00000	6,620.72
2028	7.14912	8.92495	12.9352	0.02340	0.30024	0.27622	2,397.46	0.09725	0.01945	0.00000	2,405.68
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	1.02988	9.39093	12.9379	0.02340	0.33657	0.30965	2,397.08	0.09724	0.01945	0.00000	2,405.30
2028	7.14912	8.92495	12.9352	0.02340	0.30024	0.27622	2,397.46	0.09725	0.01945	0.00000	2,405.68
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2027	0.70460	6.32382	7.77705	0.01496	0.95079	0.46943	1,569.35	0.06366	0.01273	0.00000	1,574.74
2028	0.90868	4.47693	6.50235	0.01153	0.15174	0.13960	1,183.28	0.04800	0.00960	0.00000	1,187.34

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Year	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Annual	—	—	—	—	—	—	—	—	—	—	—
2027	0.12859	1.15410	1.41931	0.00273	0.17352	0.08567	259.824	0.01054	0.00211	0.00000	260.716
2028	0.16583	0.81704	1.18668	0.00210	0.02769	0.02548	195.905	0.00795	0.00159	0.00000	196.577

2.2.3. Offsite Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	0.09568	0.31501	1.47900	0.00150	0.32422	0.08054	491.885	0.00330	0.04334	1.28870	506.172
2028	0.06581	0.05241	0.99522	< 0.000005	0.19606	0.04596	206.770	0.00231	0.00711	0.59052	209.537
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2027	0.00022	0.00085	0.00267	< 0.000005	0.00084	0.00021	1.22876	0.00001	0.00010	0.00009	1.26028
2028	0.00021	0.00080	0.00248	< 0.000005	0.00084	0.00021	1.20147	0.00001	0.00010	0.00008	1.23249
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2027	0.00912	0.03102	0.11921	0.00012	0.03297	0.00810	44.9981	0.00044	0.00388	0.05537	46.2209
2028	0.00334	0.00397	0.04212	< 0.000005	0.01104	0.00259	10.8944	0.00015	0.00044	0.01464	11.0429
Annual	—	—	—	—	—	—	—	—	—	—	—
2027	0.00166	0.00566	0.02176	0.00002	0.00602	0.00148	7.44994	0.00007	0.00064	0.00917	7.65240
2028	0.00061	0.00073	0.00769	< 0.000005	0.00202	0.00047	1.80369	0.00002	0.00007	0.00242	1.82829

2.3. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.79741	10.9334	9.84545	0.13530	6.16821	1.74581	14,813.8	17.0448	1.83370	31.7464	15,818.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.73193	11.5644	8.01165	0.13313	6.16844	1.74604	14,593.9	17.0460	1.83902	0.85399	15,569.0
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.74619	11.5976	8.44576	0.13359	6.12533	1.73516	14,640.8	17.0470	1.83985	13.7259	15,629.0
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13618	2.11656	1.54135	0.02438	1.11787	0.31667	2,423.96	2.82232	0.30461	2.27247	2,587.56

2.4. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.71567	10.9320	9.83907	0.13529	6.16809	1.74570	14,130.3	0.06686	1.66682	31.7151	14,660.4
Area	0.08167	0.00004	0.00522	< 0.000005	0.00001	0.00001	0.02146	< 0.000005	< 0.000005	—	0.02154
Energy	0.00008	0.00138	0.00116	0.00001	0.00011	0.00011	202.017	0.01258	0.00151	—	202.781
Water	—	—	—	—	—	—	380.571	6.88021	0.16537	—	601.856

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Sector	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Waste	—	—	—	—	—	—	100.906	10.0851	0.00000	—	353.034
Refrig.	—	—	—	—	—	—	—	—	—	0.03124	0.03124
Total	0.79741	10.9334	9.84545	0.13530	6.16821	1.74581	14,813.8	17.0448	1.83370	31.7464	15,818.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.65104	11.5630	8.01048	0.13312	6.16834	1.74593	13,910.5	0.06806	1.67214	0.82276	14,411.3
Area	0.08081	—	—	—	—	—	—	—	—	—	—
Energy	0.00008	0.00138	0.00116	0.00001	0.00011	0.00011	202.017	0.01258	0.00151	—	202.781
Water	—	—	—	—	—	—	380.571	6.88021	0.16537	—	601.856
Waste	—	—	—	—	—	—	100.906	10.0851	0.00000	—	353.034
Refrig.	—	—	—	—	—	—	—	—	—	0.03124	0.03124
Total	0.73193	11.5644	8.01165	0.13313	6.16844	1.74604	14,593.9	17.0460	1.83902	0.85399	15,569.0
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.66488	11.5962	8.44202	0.13358	6.12522	1.73505	13,957.3	0.06905	1.67297	13.6946	14,471.3
Area	0.08124	0.00002	0.00257	< 0.000005	< 0.000005	< 0.000005	0.01058	< 0.000005	< 0.000005	—	0.01062
Energy	0.00008	0.00138	0.00116	0.00001	0.00011	0.00011	202.017	0.01258	0.00151	—	202.781
Water	—	—	—	—	—	—	380.571	6.88021	0.16537	—	601.856
Waste	—	—	—	—	—	—	100.906	10.0851	0.00000	—	353.034
Refrig.	—	—	—	—	—	—	—	—	—	0.03124	0.03124
Total	0.74619	11.5976	8.44576	0.13359	6.12533	1.73516	14,640.8	17.0470	1.83985	13.7259	15,629.0
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.12134	2.11630	1.54067	0.02438	1.11785	0.31665	2,310.79	0.01143	0.27698	2.26730	2,395.89

Sector	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Area	0.01483	< 0.000005	0.00047	< 0.000005	< 0.000005	< 0.000005	0.00175	< 0.000005	< 0.000005	—	0.00176
Energy	0.00001	0.00025	0.00021	< 0.000005	0.00002	0.00002	33.4462	0.00208	0.00025	—	33.5727
Water	—	—	—	—	—	—	63.0079	1.13910	0.02738	—	99.6441
Waste	—	—	—	—	—	—	16.7061	1.66971	0.00000	—	58.4488
Refrig.	—	—	—	—	—	—	—	—	—	0.00517	0.00517
Total	0.13618	2.11656	1.54135	0.02438	1.11787	0.31667	2,423.96	2.82232	0.30461	2.27247	2,587.56

3. Construction Emissions Details

3.1. Site Preparation (2027)

3.1.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.05170	27.9724	28.2794	0.04891	1.17173	1.07799	5,297.82	0.21490	0.04298	—	5,316.00
Dust From Material Movement	—	—	—	—	7.66623	3.93995	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

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Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08361	0.76637	0.77478	0.00134	0.03210	0.02953	145.146	0.00589	0.00118	—	145.644
Dust From Material Movement	—	—	—	—	0.21003	0.10794	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01526	0.13986	0.14140	0.00024	0.00586	0.00539	24.0305	0.00097	0.00019	—	24.1130
Dust From Material Movement	—	—	—	—	0.03833	0.01970	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07948	0.06906	1.24809	0.00000	0.22874	0.05362	245.899	0.00270	0.00829	0.76549	249.204
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00196	0.00230	0.02569	0.00000	0.00622	0.00146	6.14222	0.00010	0.00024	0.00906	6.22453
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00036	0.00042	0.00469	0.00000	0.00113	0.00027	1.01691	0.00002	0.00004	0.00150	1.03054
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2. Grading (2027)

3.2.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.94546	25.5801	27.2816	0.06093	1.04307	0.95962	6,598.08	0.26765	0.05353	—	6,620.72
Dust From Material Movement	—	—	—	—	6.07227	1.69311	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24209	2.10247	2.24233	0.00501	0.08573	0.07887	542.308	0.02200	0.00440	—	544.169
Dust From Material Movement	—	—	—	—	0.49909	0.13916	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04418	0.38370	0.40922	0.00091	0.01565	0.01439	89.7852	0.00364	0.00073	—	90.0934
Dust From Material Movement	—	—	—	—	0.09108	0.02540	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09083	0.07893	1.42639	0.00000	0.26142	0.06128	281.027	0.00309	0.00948	0.87485	284.804
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00485	0.23609	0.05261	0.00150	0.06280	0.01926	210.858	0.00021	0.03386	0.41385	221.367

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00670	0.00790	0.08806	0.00000	0.02132	0.00499	21.0590	0.00033	0.00082	0.03106	21.3413
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00038	0.02049	0.00438	0.00012	0.00513	0.00158	17.3381	0.00002	0.00279	0.01468	18.1843
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00122	0.00144	0.01607	0.00000	0.00389	0.00091	3.48656	0.00005	0.00014	0.00514	3.53329
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00007	0.00374	0.00080	0.00002	0.00094	0.00029	2.87052	< 0.000005	0.00046	0.00243	3.01061

3.3. Building Construction (2027)

3.3.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02988	9.39093	12.9379	0.02340	0.33657	0.30965	2,397.08	0.09724	0.01945	—	2,405.30
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

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Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	1.02988	9.39093	12.9379	0.02340	0.33657	0.30965	2,397.08	0.09724	0.01945	—	2,405.30
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37890	3.45498	4.75995	0.00861	0.12383	0.11392	881.899	0.03577	0.00715	—	884.926
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06915	0.63053	0.86869	0.00157	0.02260	0.02079	146.009	0.00592	0.00118	—	146.510
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00023	0.00020	0.00359	0.00000	0.00066	0.00015	0.70819	0.00001	0.00002	0.00220	0.71771
Vendor	0.00002	0.00059	0.00025	< 0.000005	0.00018	0.00006	0.60085	< 0.000005	0.00008	0.00139	0.62583
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00021	0.00022	0.00241	0.00000	0.00066	0.00015	0.62724	0.00001	0.00003	0.00006	0.63499
Vendor	0.00002	0.00063	0.00026	< 0.000005	0.00018	0.00006	0.60152	< 0.000005	0.00008	0.00004	0.62529

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Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00008	0.00009	0.00099	0.00000	0.00024	0.00006	0.23755	< 0.000005	0.00001	0.00035	0.24073
Vendor	0.00001	0.00023	0.00009	< 0.000005	0.00006	0.00002	0.22116	< 0.000005	0.00003	0.00022	0.23011
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00001	0.00002	0.00018	0.00000	0.00004	0.00001	0.03933	< 0.000005	< 0.000005	0.00006	0.03986
Vendor	< 0.000005	0.00004	0.00002	< 0.000005	0.00001	< 0.000005	0.03662	< 0.000005	< 0.000005	0.00004	0.03810
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4. Building Construction (2028)

3.4.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.99143	8.92495	12.9352	0.02340	0.30024	0.27622	2,397.46	0.09725	0.01945	—	2,405.68
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

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Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Off-Road Equipment	0.99143	8.92495	12.9352	0.02340	0.30024	0.27622	2,397.46	0.09725	0.01945	—	2,405.68
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.45206	4.06950	5.89807	0.01067	0.13690	0.12595	1,093.17	0.04434	0.00887	—	1,096.92
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08250	0.74268	1.07640	0.00195	0.02498	0.02299	180.986	0.00734	0.00147	—	181.607
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00022	0.00018	0.00334	0.00000	0.00066	0.00015	0.69475	0.00001	0.00002	0.00198	0.70404
Vendor	0.00002	0.00057	0.00024	< 0.000005	0.00018	0.00006	0.58532	< 0.000005	0.00008	0.00123	0.61015
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00020	0.00020	0.00224	0.00000	0.00066	0.00015	0.61547	0.00001	0.00002	0.00005	0.62286
Vendor	0.00002	0.00061	0.00024	< 0.000005	0.00018	0.00006	0.58600	< 0.000005	0.00008	0.00003	0.60963

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Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00009	0.00010	0.00114	0.00000	0.00030	0.00007	0.28887	< 0.000005	0.00001	0.00039	0.29261
Vendor	0.00001	0.00027	0.00011	< 0.000005	0.00008	0.00003	0.26702	< 0.000005	0.00004	0.00024	0.27802
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00002	0.00002	0.00021	0.00000	0.00005	0.00001	0.04783	< 0.000005	< 0.000005	0.00006	0.04844
Vendor	< 0.000005	0.00005	0.00002	< 0.000005	0.00001	< 0.000005	0.04421	< 0.000005	0.00001	0.00004	0.04603
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5. Paving (2028)

3.5.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68524	6.62754	9.90989	0.01395	0.25554	0.23510	1,511.03	0.06129	0.01226	—	1,516.22
Paving	0.49883	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

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Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03755	0.36315	0.54301	0.00076	0.01400	0.01288	82.7962	0.00336	0.00067	—	83.0803
Paving	0.02733	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00685	0.06628	0.09910	0.00014	0.00256	0.00235	13.7079	0.00056	0.00011	—	13.7549
Paving	0.00499	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06581	0.05241	0.99522	0.00000	0.19606	0.04596	206.770	0.00231	0.00711	0.59052	209.537
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00324	0.00360	0.04084	0.00000	0.01066	0.00250	10.3316	0.00014	0.00039	0.01400	10.4653

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00059	0.00066	0.00745	0.00000	0.00195	0.00046	1.71051	0.00002	0.00006	0.00232	1.73265
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6. Architectural Coating (2028)

3.6.1. Onsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10731	0.80814	1.11833	0.00173	0.01536	0.01413	133.517	0.00542	0.00108	—	133.975
Architectural Coatings	7.04181	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10731	0.80814	1.11833	0.00173	0.01536	0.01413	133.517	0.00542	0.00108	—	133.975

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Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Architectural Coatings	7.04181	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00588	0.04428	0.06128	0.00009	0.00084	0.00077	7.31600	0.00030	0.00006	—	7.34111
Architectural Coatings	0.38585	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00107	0.00808	0.01118	0.00002	0.00015	0.00014	1.21125	0.00005	0.00001	—	1.21540
Architectural Coatings	0.07042	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.2. Offsite - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00004	0.00004	0.00067	0.00000	0.00013	0.00003	0.13895	< 0.000005	< 0.000005	0.00040	0.14081
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Location	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00004	0.00004	0.00045	0.00000	0.00013	0.00003	0.12309	< 0.000005	< 0.000005	0.00001	0.12457
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.000005	< 0.000005	0.00003	0.00000	0.00001	< 0.000005	0.00694	< 0.000005	< 0.000005	0.00001	0.00703
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.000005	< 0.000005	0.00001	0.00000	< 0.000005	< 0.000005	0.00115	< 0.000005	< 0.000005	< 0.000005	0.00116
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

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Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.71567	10.9320	9.83907	0.13529	6.16809	1.74570	14,130.3	0.06686	1.66682	31.7151	14,660.4
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.71567	10.9320	9.83907	0.13529	6.16809	1.74570	14,130.3	0.06686	1.66682	31.7151	14,660.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.65104	11.5630	8.01048	0.13312	6.16834	1.74593	13,910.5	0.06806	1.67214	0.82276	14,411.3
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.65104	11.5630	8.01048	0.13312	6.16834	1.74593	13,910.5	0.06806	1.67214	0.82276	14,411.3
Annual	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.12134	2.11630	1.54067	0.02438	1.11785	0.31665	2,310.79	0.01143	0.27698	2.26730	2,395.89

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.12134	2.11630	1.54067	0.02438	1.11785	0.31665	2,310.79	0.01143	0.27698	2.26730	2,395.89

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	1.66813	0.00010	0.00001	—	1.67446
Parking Lot	—	—	—	—	—	—	198.699	0.01233	0.00149	—	199.453
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	200.368	0.01243	0.00151	—	201.127

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Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	1.66813	0.00010	0.00001	—	1.67446
Parking Lot	—	—	—	—	—	—	198.699	0.01233	0.00149	—	199.453
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	200.368	0.01243	0.00151	—	201.127
Annual	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	0.27618	0.00002	< 0.000005	—	0.27723
Parking Lot	—	—	—	—	—	—	32.8970	0.00204	0.00025	—	33.0217
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	33.1731	0.00206	0.00025	—	33.2989

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

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Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00008	0.00138	0.00116	0.00001	0.00011	0.00011	1.64932	0.00015	< 0.000005	—	1.65390
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00008	0.00138	0.00116	0.00001	0.00011	0.00011	1.64932	0.00015	< 0.000005	—	1.65390
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00008	0.00138	0.00116	0.00001	0.00011	0.00011	1.64932	0.00015	< 0.000005	—	1.65390
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00008	0.00138	0.00116	0.00001	0.00011	0.00011	1.64932	0.00015	< 0.000005	—	1.65390
Annual	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	0.00001	0.00025	0.00021	< 0.000005	0.00002	0.00002	0.27306	0.00002	< 0.000005	—	0.27382

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00001	0.00025	0.00021	< 0.000005	0.00002	0.00002	0.27306	0.00002	< 0.000005	—	0.27382

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04223	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03859	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00086	0.00004	0.00522	< 0.000005	0.00001	0.00001	0.02146	< 0.000005	< 0.000005	—	0.02154
Total	0.08167	0.00004	0.00522	< 0.000005	0.00001	0.00001	0.02146	< 0.000005	< 0.000005	—	0.02154
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04223	—	—	—	—	—	—	—	—	—	—

Source	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Architectural Coatings	0.03859	—	—	—	—	—	—	—	—	—	—
Total	0.08081	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.00771	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00704	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00008	< 0.000005	0.00047	< 0.000005	< 0.000005	< 0.000005	0.00175	< 0.000005	< 0.000005	—	0.00176
Total	0.01483	< 0.000005	0.00047	< 0.000005	< 0.000005	< 0.000005	0.00175	< 0.000005	< 0.000005	—	0.00176

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	380.571	6.88021	0.16537	—	601.856
Parking Lot	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000

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Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	380.571	6.88021	0.16537	—	601.856
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	380.571	6.88021	0.16537	—	601.856
Parking Lot	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	380.571	6.88021	0.16537	—	601.856
Annual	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	63.0079	1.13910	0.02738	—	99.6441
Parking Lot	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	63.0079	1.13910	0.02738	—	99.6441

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	100.906	10.0851	0.00000	—	353.034
Parking Lot	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	100.906	10.0851	0.00000	—	353.034
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	100.906	10.0851	0.00000	—	353.034
Parking Lot	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Total	—	—	—	—	—	—	100.906	10.0851	0.00000	—	353.034
Annual	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	16.7061	1.66971	0.00000	—	58.4488
Parking Lot	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Other Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Other Non-Asphalt Surfaces	—	—	—	—	—	—	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	16.7061	1.66971	0.00000	—	58.4488

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	0.03124	0.03124
Total	—	—	—	—	—	—	—	—	—	0.03124	0.03124
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
General Heavy Industry	—	—	—	—	—	—	—	—	—	0.03124	0.03124
Total	—	—	—	—	—	—	—	—	—	0.03124	0.03124
Annual	—	—	—	—	—	—	—	—	—	—	—
General Heavy Industry	—	—	—	—	—	—	—	—	—	0.00517	0.00517
Total	—	—	—	—	—	—	—	—	—	0.00517	0.00517

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

Equipment Type	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Species	ROG	NOx	CO	SO2	PM10T	PM2.5T	CO2T	CH4	N2O	R	CO2e
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	4/30/2027	5/14/2027	5.00000	10.00000	—

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Grading	Grading	5/15/2027	6/26/2027	5.00000	30.0000	—
Building Construction	Building Construction	6/27/2027	8/20/2028	5.00000	300.000	—
Paving	Paving	8/21/2028	9/18/2028	5.00000	20.0000	—
Architectural Coating	Architectural Coating	9/19/2028	10/17/2028	5.00000	20.0000	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00000	8.00000	367.000	0.40000
Site Preparation	Tractors/Loaders/ Backhoes	Diesel	Average	4.00000	8.00000	84.0000	0.37000
Grading	Excavators	Diesel	Average	2.00000	8.00000	36.0000	0.38000
Grading	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Grading	Scrapers	Diesel	Average	2.00000	8.00000	423.000	0.48000
Grading	Tractors/Loaders/ Backhoes	Diesel	Average	2.00000	8.00000	84.0000	0.37000
Building Construction	Cranes	Diesel	Average	1.000000	7.00000	367.000	0.29000
Building Construction	Forklifts	Diesel	Average	3.00000	8.00000	82.0000	0.20000
Building Construction	Generator Sets	Diesel	Average	1.000000	8.00000	14.0000	0.74000
Building Construction	Tractors/Loaders/ Backhoes	Diesel	Average	3.00000	7.00000	84.0000	0.37000

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Building Construction	Welders	Diesel	Average	1.000000	8.00000	46.0000	0.45000
Paving	Pavers	Diesel	Average	2.00000	8.00000	81.0000	0.42000
Paving	Paving Equipment	Diesel	Average	2.00000	8.00000	89.0000	0.36000
Paving	Rollers	Diesel	Average	2.00000	8.00000	36.0000	0.38000
Architectural Coating	Air Compressors	Diesel	Average	1.000000	6.00000	37.0000	0.48000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	Worker	17.5000	18.5000	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2000	HHDT,MHDT
Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	20.0000	18.5000	LDA,LDT1,LDT2
Grading	Vendor	—	10.2000	HHDT,MHDT
Grading	Hauling	3.23333	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	0.05040	18.5000	LDA,LDT1,LDT2
Building Construction	Vendor	0.01967	10.2000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	15.0000	18.5000	LDA,LDT1,LDT2
Paving	Vendor	—	10.2000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	0.01008	18.5000	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2000	HHDT,MHDT
Architectural Coating	Hauling	0.00000	20.0000	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00000	0.00000	180.000	60.0000	30,256.6

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	15.0000	0.00000	0.00000
Grading	769.000	—	90.0000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	11.5766

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	General Heavy Industry	0.00000	0%
Paving	Parking Lot	3.57273	100%
Paving	Other Asphalt Surfaces	0.23512	100%
Paving	Other Non-Asphalt Surfaces	7.76876	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00000	531.983	0.03300	0.00400
2028	0.00000	531.983	0.03300	0.00400

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Heavy Industry	465.055	465.055	465.055	169,745	7,637.76	7,637.76	7,637.76	2,787,781
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
General Heavy Industry	Wood Fireplaces	0	0
General Heavy Industry	Gas Fireplaces	0	0
General Heavy Industry	Propane Fireplaces	0	0
General Heavy Industry	Electric Fireplaces	0	0
General Heavy Industry	No Fireplaces	0	0
General Heavy Industry	Conventional Wood Stoves	0	0
General Heavy Industry	Catalytic Wood Stoves	0	0
General Heavy Industry	Non-Catalytic Wood Stoves	0	0
General Heavy Industry	Pellet Wood Stoves	0	0
Parking Lot	Wood Fireplaces	0	0

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0
Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0
Other Asphalt Surfaces	Wood Fireplaces	0	0
Other Asphalt Surfaces	Gas Fireplaces	0	0
Other Asphalt Surfaces	Propane Fireplaces	0	0
Other Asphalt Surfaces	Electric Fireplaces	0	0
Other Asphalt Surfaces	No Fireplaces	0	0
Other Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Pellet Wood Stoves	0	0
Other Non-Asphalt Surfaces	Wood Fireplaces	0	0
Other Non-Asphalt Surfaces	Gas Fireplaces	0	0
Other Non-Asphalt Surfaces	Propane Fireplaces	0	0
Other Non-Asphalt Surfaces	Electric Fireplaces	0	0

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Other Non-Asphalt Surfaces	No Fireplaces	0	0
Other Non-Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Non-Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0.00000	0.00000	180.000	60.0000	30,256.6

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	180.000

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Heavy Industry	1,144.53	531.983	0.0330	0.0040	5,146.33

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Parking Lot	136,330	531.983	0.0330	0.0040	0.00000
Other Asphalt Surfaces	0.00000	531.983	0.0330	0.0040	0.00000
Other Non-Asphalt Surfaces	0.00000	531.983	0.0330	0.0040	0.00000

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Heavy Industry	34,916,900	3,340,085
Parking Lot	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Heavy Industry	187.230	0.00000
Parking Lot	0.00000	0.00000
Other Asphalt Surfaces	0.00000	0.00000
Other Non-Asphalt Surfaces	0.00000	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Heavy Industry	Other commercial A/C and heat pumps	R-410A	2,088.00	0.30000	4.00000	4.00000	18.0000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	34.2300	annual days of extreme heat
Extreme Precipitation	0.60000	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.48000	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures

from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	5	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	5	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	84.5800
AQ-PM	7.23086
AQ-DPM	22.8002
Drinking Water	11.7522
Lead Risk Housing	32.9553
Pesticides	0.00000
Toxic Releases	15.3288
Traffic	7.00000
Effect Indicators	—
CleanUp Sites	0.00000
Groundwater	0.00000
Haz Waste Facilities/Generators	61.5751
Impaired Water Bodies	0.00000
Solid Waste	0.00000
Sensitive Population	—
Asthma	92.0738
Cardio-vascular	96.1989
Low Birth Weights	37.0157
Socioeconomic Factor Indicators	—
Education	64.2622

Indicator	Result for Project Census Tract
Housing	63.6122
Linguistic	39.8295
Poverty	70.5276
Unemployment	77.0953

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	41.17798024
Employed	2.746054151
Median HI	32.00307969
Education	—
Bachelor's or higher	18.61927371
High school enrollment	100
Preschool enrollment	80.46965225
Transportation	—
Auto Access	63.41588605
Active commuting	1.039394328
Social	—
2-parent households	11.79263442

Indicator	Result for Project Census Tract
Voting	43.75721802
Neighborhood	—
Alcohol availability	83.33119466
Park access	18.85025022
Retail density	25.00962402
Supermarket access	17.31040678
Tree canopy	3.464647761
Housing	—
Homeownership	80.55947645
Housing habitability	67.62479148
Low-inc homeowner severe housing cost burden	18.97857051
Low-inc renter severe housing cost burden	62.83844476
Uncrowded housing	79.21211344
Health Outcomes	—
Insured adults	31.82343128
Arthritis	6.3
Asthma ER Admissions	5.7
High Blood Pressure	16.8
Cancer (excluding skin)	18.5
Asthma	14.8
Coronary Heart Disease	9.0

Indicator	Result for Project Census Tract
Chronic Obstructive Pulmonary Disease	6.0
Diagnosed Diabetes	31.9
Life Expectancy at Birth	4.1
Cognitively Disabled	22.1
Physically Disabled	13.7
Heart Attack ER Admissions	0.8
Mental Health Not Good	29.3
Chronic Kidney Disease	20.1
Obesity	32.0
Pedestrian Injuries	77.7
Physical Health Not Good	27.6
Stroke	15.1
Health Risk Behaviors	—
Binge Drinking	52.5
Current Smoker	22.4
No Leisure Time for Physical Activity	43.3
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	82.0
Elderly	43.9

Indicator	Result for Project Census Tract
English Speaking	71.0
Foreign-born	5.1
Outdoor Workers	32.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	93.9
Traffic Density	3.4
Traffic Access	23.0
Other Indices	—
Hardship	68.3
Other Decision Support	—
2016 Voting	50.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	30.0000
Healthy Places Index Score for Project Location (b)	25.0000
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	Per Site Plan Landscape and building are classified under General Heavy Industry. Hardscape is classified as parking lot. CMB is classified as other non-asphalt surfaces. Off-site improvements are classified as other asphalt surfaces
Construction: Construction Phases	The Project Site is vacant.
Operations: Vehicle Data	Per Revised Trip Generation prepared for the project
Operations: Fleet Mix	Per Revised Trip Generation for the Project.

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Building Area	sq. ft	150,992	120.000

Model Parameter	Units	Default Value	New Value
Landscape Area	sq. ft	—	150,872

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
General Heavy Industry	Weekday Trip Rate	size/day	3.93000	3.08000
General Heavy Industry	Saturday Trip Rate	size/day	6.42000	3.08000
General Heavy Industry	Sunday Trip Rate	size/day	5.09000	3.08000

8.5.1.2. Fleet Mix

Land Use	Season	Model Parameter	Units	Default Value	New Value
General Heavy Industry	A	Heavy-Heavy-Duty Trucks	%	2%	28%
General Heavy Industry	A	Passenger Cars	%	48%	40%
General Heavy Industry	A	Light-Duty Trucks 1	%	4%	0%
General Heavy Industry	A	Light-Duty Trucks 2	%	22%	0%
General Heavy Industry	A	Light Heavy-Duty Trucks 1	%	3%	4%
General Heavy Industry	A	Light Heavy-Duty Trucks 2	%	1%	0%
General Heavy Industry	A	Motorcycles	%	3%	0%
General Heavy Industry	A	Medium-Duty Trucks	%	15%	0%

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Land Use	Season	Model Parameter	Units	Default Value	New Value
General Heavy Industry	A	Motor Homes	%	< 0.5%	0%
General Heavy Industry	A	Medium-Heavy-Duty Trucks	%	1%	28%
General Heavy Industry	A	Other Buses	%	< 0.5%	0%
General Heavy Industry	A	School Buses	%	< 0.5%	0%
General Heavy Industry	A	Urban Buses	%	< 0.5%	0%
General Heavy Industry	S	Heavy-Heavy-Duty Trucks	%	2%	28%
General Heavy Industry	S	Passenger Cars	%	48%	40%
General Heavy Industry	S	Light-Duty Trucks 1	%	4%	0%
General Heavy Industry	S	Light-Duty Trucks 2	%	22%	0%
General Heavy Industry	S	Light Heavy-Duty Trucks 1	%	3%	4%
General Heavy Industry	S	Light Heavy-Duty Trucks 2	%	1%	0%
General Heavy Industry	S	Motorcycles	%	3%	0%
General Heavy Industry	S	Medium-Duty Trucks	%	15%	0%
General Heavy Industry	S	Motor Homes	%	< 0.5%	0%
General Heavy Industry	S	Medium-Heavy-Duty Trucks	%	1%	28%
General Heavy Industry	S	Other Buses	%	< 0.5%	0%
General Heavy Industry	S	School Buses	%	< 0.5%	0%
General Heavy Industry	S	Urban Buses	%	< 0.5%	0%
General Heavy Industry	W	Heavy-Heavy-Duty Trucks	%	2%	28%
General Heavy Industry	W	Passenger Cars	%	48%	40%
General Heavy Industry	W	Light-Duty Trucks 1	%	4%	0%

Waalew Trucking Detailed Report, 8/1/2026

Land Use	Season	Model Parameter	Units	Default Value	New Value
General Heavy Industry	W	Light-Duty Trucks 2	%	22%	0%
General Heavy Industry	W	Light Heavy-Duty Trucks 1	%	3%	4%
General Heavy Industry	W	Light Heavy-Duty Trucks 2	%	1%	0%
General Heavy Industry	W	Motorcycles	%	3%	0%
General Heavy Industry	W	Medium-Duty Trucks	%	15%	0%
General Heavy Industry	W	Motor Homes	%	< 0.5%	0%
General Heavy Industry	W	Medium-Heavy-Duty Trucks	%	1%	28%
General Heavy Industry	W	Other Buses	%	< 0.5%	0%
General Heavy Industry	W	School Buses	%	< 0.5%	0%
General Heavy Industry	W	Urban Buses	%	< 0.5%	0%